## **AMENDMENTS TO THE CLAIMS:**

The listing of claims will replace all prior versions, and listings of claims in the application:

## LISTING OF CLAIMS:

- 1. (currently amended) A method of fabricating an electro-optical device suitable for use in an image forming system, comprising the steps of:
  - a) providing a substrate with at least one photosensor;
  - b) applying a first filter layer above the substrate;
- c) applying an inter-filter layer over at least a portion of the first filter layer and on an area of the substrate not covered by the first filter layer, thereby smoothing a top surface of the electro-optical device without removing any material from the inter-filter layer, wherein the inter-filter layer is composed of an optically transmissive, film-forming polymer acrylic material; and
- d) applying a second filter layer over at least a portion of the interfilter layer without removing the inter-filter layer, wherein at least one of the first filter layer and the second filter layer contains a pigment.
- 2. (original) A method as in claim 1, further including the step of applying a base layer on the substrate before the step of applying a first filter layer.
- 3. (original) A method as in claim 1, further including the step of mounting the electro-optical device in an image forming system.
- 4. (original) A method as in claim 1, wherein the inter-filter layer is substantially colorless.
  - 5. (canceled)
  - 6. (canceled)
  - 7. (canceled)

- 8. (currently amended) A method of making an electro-optical device for image sensing, the method comprising:
  - a) providing a substrate of the electro-optical device;
- b) inserting a first photosensor and a second photosensor into the substrate of the electro-optical device;
  - c) applying a base layer on the substrate;
- d) covering an area of the base layer that overlies the first photosensor with a patterned first filter layer, the first filter layer allowing light having a wavelength within a first range to reach the first photosensor;
- e) applying a first inter-filter layer on the first filter layer and on an area of the base layer not covered by the first filter layer, thereby smoothing a top surface of the electro-optical device without removing any material from the first inter-filter layer, wherein the first inter-filter layer contains <u>an optically transmissive</u> acrylic <u>material</u>; and
- f) without removing any portion of the first inter-filter layer, covering an area of the first inter-filter layer that overlies the second photosensor with a patterned second filter layer, the second filter layer preferentially allowing light having a wavelength within a second range to reach the second photosensor, wherein at least one of the first filter layer and second filter layer contains a pigment.
- 9. (previously presented) A method as in claim 8, wherein at least one of the base layer and the first inter-filter layer is colorless and translucent.
  - 10. (canceled)
  - 11. (canceled)
- 12. (previously presented) A method as in claim 8, further comprising applying a second inter-filter layer on the second filter layer and on an area of the first inter-filter layer not covered by the second filter layer, thereby smoothing a second top surface of the electro-optical device.

- 13. (original) A method as in claim 12, wherein at least one of the base layer and the second inter-filter layer is colorless and translucent.
- 14. (original) A method as in claim 12, wherein the second inter-filter layer contains acrylic.
  - 15. (canceled)
- 16. (original) A method as in claim 12, wherein the electro-optical device includes a linear array chip.
- 17. (currently amended) An electro-optical device for image sensing, comprising:
  - a) a substrate;
- b) a first photosensor and a second photosensor disposed within the substrate:

a base layer applied to the substrate with the first and second photosensor disposed within the substrate;

- c) a patterned first filter layer disposed on an area of the substrate that overlies the first photosensor, the first filter layer allowing light having a wavelength within a first range to reach the first photosensor;
- d) a first inter-filter layer disposed permanently on the first filter layer and at least on a portion of the substrate, the first inter-filter layer smoothing a top surface of the electro-optical device without removing any material from the first inter-filter layer, wherein the first inter-filter layer contains a colorless and translucent optically transmissive acrylic material; and
- e) a patterned second filter layer disposed on an area of the first inter-filter layer that overlies the second photosensor, the second filter layer preferentially allowing light having a wavelength within a second range to reach the second photosensor, wherein at least one of the first filter layer and second filter layer contains a pigment; and

a second inter-filter layer disposed on the patterned second

filter layer and on an area of the first inter-filter layer not covered by the patterned second filter layer, thereby smoothing a second top surface of the electro-optical device, wherein one or more of the said inter-filter layers includes a color to modify an incoming wavelength.

- 18. (canceled)
- 19. (canceled)
- 20. (canceled)
- 21. (previously presented) A method as in claim 1, wherein the step (c) of applying an inter-filter layer over at least the first filter layer includes applying the inter-filter layer over (i) a patterned first filter of the first filter layer and, (ii) one of the substrate or a base layer.
- 22. (previously presented) A method as in claim 1, wherein the step (d) including without removing the inter-filter layer, includes not polishing or grinding the inter-filter layer.
- 23. (previously presented) A method as in claim 1, wherein the inter-filter layer is provided with a color to modify an incoming wavelength.